



# Power Plant Electrical Technologies (Pty) Ltd

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## Refo-Flex

Maximising the lifespan and performance of your VSD assets.

### The Problem: The "Silent Killer" of Stored VSDs

Variable Speed Drives (VSDs) that remain unpowered for extended periods are at high risk. Without regular energization, DC link capacitors degrade.

□ **The Consequence:** Catastrophic failure or "nuisance trips" upon startup.

□ **The OEM Requirement:** Leading manufacturers mandate controlled reforming to maintain warranty and drive integrity.



### One Device. Total Control.

The Refo-Flex is a mobile, PLC-controlled system designed to safely re-energize DC link capacitors, bridging the gap between long-term storage and operational readiness.

### Core Capabilities

□ **Universal Compatibility:**  
OEM-independent. Whether it's ABB or other major brands, Refo-Flex handles them all.

□ **Automated Precision:**  
An integrated PLC/HMI automatically steps through DC voltage levels based on the specific drive class.

□ **Safety First:**  
Features a rotating beacon and audible alarms to ensure site personnel are aware of live reforming in progress.





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# Technical Performance Highlights



| Feature                | Specification/Benefit                                          |
|------------------------|----------------------------------------------------------------|
| <b>Voltage Support</b> | Supports Drive classes from 230V up to 690V                    |
| <b>Automation</b>      | PLC-controlled sequences eliminate technician guesswork.       |
| <b>Interface</b>       | Intuitive HMI—no specialist engineering skills required.       |
| <b>Power Supply</b>    | Standard 230 V IEC14 supply (No special site power needed).    |
| <b>Portability</b>     | Heavy-duty wheels and compact footprint for easy site transit. |

## Key Benefits for Your Operation

- ❑ **Reduce Capital Risk:** Avoid the high cost of drive replacements by extending capacitor life.
- ❑ **Minimize Shutdown Stress:** Perfect for commissioning and recommissioning during tight maintenance windows.
- ❑ **Eliminate Manual Error:** No more manual resistor swapping or "watching the clock."
- ❑ **Compliance Ready:** Reforming principles align with OEM guidelines (e.g., ABB).
- ❑ **Insurance Approved:** Compliant with new insurance requirements on the storage of VSDs.

## Where Refo-Flex Works

**Engineered for continuous processes, Refo-Flex is the ideal solution for facilities stocking VSDs:**

- ❑ **Mining & Minerals:** Vital for mothballed equipment and shutdowns.
- ❑ **Oil & Gas:** Ensuring reliability in remote, critical environments.
- ❑ **Utilities:** Water, wastewater, and power generation maintenance.
- ❑ **Warehousing:** Keep your spare drive inventory "flight-ready" at all times.

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